

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2005年9月9日 (09.09.2005)

PCT

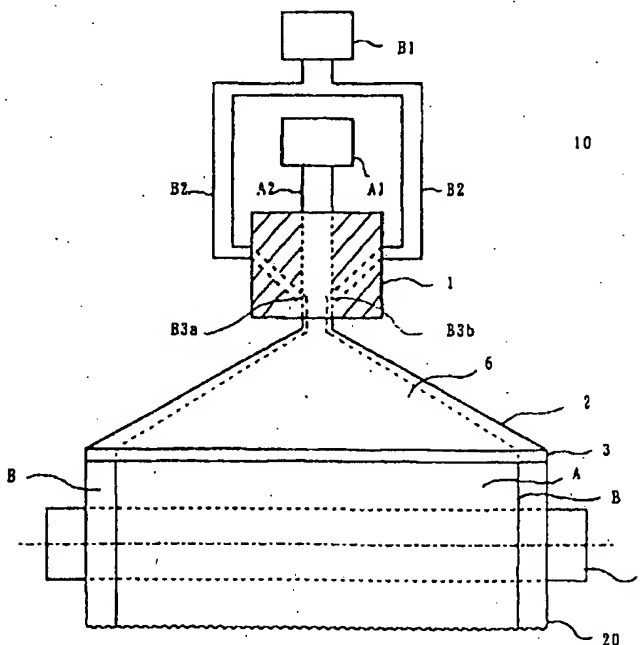
(10) 国際公開番号
WO 2005/082598 A1

- (51) 国際特許分類: B29C 47/14, 47/02 // B29L 7:00, 9:00 (72) 発明者; および
(21) 国際出願番号: PCT/JP2005/003120 (75) 発明者/出願人 (米国についてのみ): 藤井正 (FUJII, Tadashi) [JP/JP]; 〒7448611 山口県下松市東豊井 1 3 0 2 番地 東洋鋼板株式会社下松工場内 Yamaguchi (JP). 中村琢司 (NAKAMURA, Takuji) [JP/JP]; 〒7448611 山口県下松市東豊井 1 3 0 2 番地 東洋鋼板株式会社下松工場内 Yamaguchi (JP). 稲沢弘志 (INAZAWA, Hiroshi) [JP/JP]; 〒7448611 山口県下松市東豊井 1 3 0 2 番地 東洋鋼板株式会社下松工場内 Yamaguchi (JP). 松原康洋 (MATSUBARA, Yasuhiro) [JP/JP]; 〒7448611 山口県下松市東豊井 1 2 9 6 番地の 1 東洋鋼板株式会社技術研究所内 Yamaguchi (JP).
(22) 国際出願日: 2005年2月25日 (25.02.2005)
(25) 国際出願の言語: 日本語
(26) 国際公開の言語: 日本語
(30) 優先権データ: 特願2004-055684 2004年3月1日 (01.03.2004) JP
(71) 出願人 (米国を除く全ての指定国について): 東洋鋼板株式会社 (TOYO KOHAN CO., LTD.) [JP/JP]; 〒1028447 東京都千代田区四番町 2 番地 1 2 Tokyo (JP).
(81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM,

(続葉有)

(54) Title: PROCESS FOR PRODUCING UNSTRETCHED FILM, PROCESS FOR PRODUCING RESIN-COATED METAL SHEET, AND APPARATUS FOR PRODUCING UNSTRETCHED FILM

(54) 発明の名称: 無延伸フィルムの製造方法、樹脂被覆金属板の製造方法、および無延伸フィルムの製造装置



し、熱可塑性樹脂Bを押出用Tダイ2

(57) Abstract: A process by which many kinds of unstretched films comprising a thermoplastic resin are produced each in a small amount and high yield. A thermoplastic resin (A) to be formed into an unstretched film and another thermoplastic resin (B) are separately melted by heating. The thermoplastic resin (B) is introduced to each edge part of a T-die (2) for extrusion. The two resins are ejected and extruded on a casting roll so that the thermoplastic resin (B) is disposed on the side of each edge of the thermally melted thermoplastic resin (A). Thus, an unstretched film (20) is formed which comprises the thermoplastic resin (A) and the thermoplastic resin (B) disposed on the side of each edge of the resin (A). Thereafter, the parts constituted of the thermoplastic resin (B) are removed by cutting to form a target unstretched film (20) consisting only of the thermoplastic resin (A).

(57) 要約: 少量多品種で生産する、熱可塑性樹脂からなる無延伸フィルムを高歩留まりで製造する方法を提供することを目的とする。無延伸フィルムとして製膜することを目的とする熱可塑性樹脂Aとその熱可塑性樹脂以外の別の熱可塑性樹脂Bを別個に加熱溶融

(続葉有)

112/7

DO/US WORKSHEET

U.S. Appl. No. 10 / 591 058Internatio. Appl No. JPO5/003120Application filed by: ☐ 20 months ☒ 30 months

INTERNATIONAL APPLICATION PAPERS IN THE APPLICATION FILE:

- | | |
|--|---|
| <input checked="" type="checkbox"/> International application (RECORD COPY) | <input type="checkbox"/> Request form PCT/RO/101 |
| <input type="checkbox"/> Article 19 amendments | <input type="checkbox"/> PCT/IB/302 |
| <input type="checkbox"/> PCT/IB/331 | <input checked="" type="checkbox"/> PCT/ISA/210-Search Report |
| <input type="checkbox"/> PCT/IPEA/409 IPER (PCT/IPEA/416 on front) | <input type="checkbox"/> Search Report references |
| <input type="checkbox"/> Annexes to 409 | <input type="checkbox"/> Other _____ |
| <input checked="" type="checkbox"/> Priority document(s) No. <u>1</u> | |
| <input type="checkbox"/> INTERNATIONAL APPLICATION ON DOUBLE SIDED PAPER (COPIES MADE) | |

RECEIPTS FROM THE APPLICANT: (other than checked above)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Basic National Fee (paid or authorized to charge) | <input checked="" type="checkbox"/> Preliminary amendment(s) filed
<u>01-30-07</u> |
| Translation of international application as filed: | |
| <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> Information Disclosure Statement |
| <input checked="" type="checkbox"/> Claims | <input type="checkbox"/> Assignment document |
| <input checked="" type="checkbox"/> Words in the drawing figure(s) | <input type="checkbox"/> Power of attorney/Change of address |
| <input type="checkbox"/> Article 19 amendments | <input type="checkbox"/> Substitute specification |
| <input type="checkbox"/> Annexes to 409 | <input type="checkbox"/> Verified small status claim |
| <input checked="" type="checkbox"/> Oath / Declaration | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> DNA diskette | |

Notes: No data Sheet filed.

35 U.S.C. 371 - Receipt of Request (PTO-1390)

30 Aug '06

Date acceptable oath / declaration received

31 DEC '07

Date complete 35 U.S.C 371 requirements met

102(e) Date

Date of completion of DO/EO 906 - Notification of Missing 102(e) Requirements

Date of completion of DO/EO 907 - Notification of Acceptance for 102(e) date

Date of completion of DO/EO 911 - Application accepted under 35 U.S.C. 1.11

Date of completion of DO/EO 905 - Notification of Missing Requirements

30 Oct '07

Date of completion of DO/EO 916 - Notification of Defective Response

Date of completion of DO/EO 903 - Notification of Acceptance

25 Mar '09

Date of completion of DO/EO 909 - Notification of Abandonment

WIPO Publication

Publication No.

WO05/082598 A1

Publication Date

09 Sep '05

Publication Language

Japanese

Not Published

☐ U.S. only

Designated

☒ EP requestScreening done by: SA